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ANSI/ASHRAE Standard 62.2-2025
Ventilation and Acceptable Indoor Air Quality in Residential Buildings

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NOTE

Approved addenda, errata, or interpretations for this standard can be downloaded free of charge from the ASHRAE website at www.ashrae.org/technology.

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(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

Standard 62.2 is the consensus ventilation and indoor air quality (IAQ) standard developed via the ANSI process to address dwelling units in residential occupancies in which the occupants are nontransient. The standard describes the minimum requirements to achieve acceptable IAQ via dwelling-unit ventilation, local mechanical exhaust, and source control. Dwelling-unit ventilation is intended to dilute the unavoidable contaminant emissions from people, materials, and background processes. Local mechanical exhaust is intended to remove contaminants from locations such as kitchens and bathrooms that, because of their design function, are expected to contain sources of contaminants. The standard includes secondary requirements that focus on properties and performance of residential ventilation systems. Examples include sound and airflow ratings for fans, controls, and labeling requirements. The standard provides additional compliance pathways for existing dwellings.

Standard 62.2 does not address specific pollutant concentration levels, nor does it fully address certain potential pollutant sources such as contamination from outdoor sources or from episodic occupant-controlled events such as painting, smoking, cleaning, or other high-polluting events. For information on residential ventilation and IAQ beyond the minimum requirements contained in this standard, refer to Residential Indoor Air Quality Guide: Best Practices for Acquisition, Design, Construction, Maintenance and Operation.

The 2025 edition of this standard incorporates changes from 16 addenda to the 2022 edition. Significant updates include a change from MERV 6 to MERV 11 filtration, a new (optional) IAQ Procedure path to meet the dwelling-unit ventilation rate, a requirement for local exhaust in toilet rooms, a new exception allowing for a shorter separation distance between an air intake and a dwelling unit's exhaust, ozone requirements for air-cleaning devices, a replacement of hydraulic diameter with equivalent diameter in the prescriptive duct sizing section, requirements for a ground cover over exposed earth, and an informative appendix on how to manage infectious aerosols (based on ASHRAE Standard 241). For a complete description of changes, refer to Informative Appendix G.

1. PURPOSE

This standard defines the roles and minimum requirements for *mechanical ventilation* and *natural ventilation systems* and other measures intended to provide *acceptable indoor air quality* (IAQ) in individual *dwelling units*.

2. SCOPE

This standard applies to *dwelling units* in *residential occupancies* in which the occupants are nontransient.

2.1 This standard considers chemical, physical, and biological *contaminants* that can affect air quality. Thermal comfort requirements are not included in this standard.

Informative Note: See ANSI/ASHRAE Standard 55, *Thermal Environmental Conditions for Human Occupancy*, for thermal comfort requirements.

2.2 While *acceptable indoor air quality* (*IAQ*) is the goal of this standard, it will not necessarily be achieved, even if all requirements are met

a. because of the diversity of *sources* and *contaminants* in *indoor air* and the range of susceptibility in the population;
b. because of the many other factors that may affect occupant perception and acceptance of IAQ, such as thermal environment, acoustical environment, visual environment, and psychological factors;
c. if the *ventilation air* is unacceptable and this air is brought into the *dwelling unit* without first being cleaned;
d. because of *contaminant* transport from adjacent spaces;
e. if the *system* or *systems* are not operated and maintained as designed; or
f. when *high-polluting events* occur.

2.3 This standard does not claim to achieve *acceptable IAQ* in buildings in which smoking is permitted.

Informative Note: See the ASHRAE Position Document on Environmental Tobacco Smoke (ETS) for more information on ETS in buildings.